**Fayetteville Publishing Company looks to Energy Efficiency as a means to Streamline Production**

**SUMMARY**

The Fayetteville Publishing Company, an established newspaper, magazine, and commercial printer, has a history of production and process refinement. Continuing with this philosophy, it sought the expertise available at NC State University’s energy extension group, Energy Solutions, to assess energy use at its facility. The partnership resulted in a detailed analysis of current consumption and the recommendation of seven measures for increased conservation opportunities.

**Company Background**

Nearly a century old, The Fayetteville Publishing Company, is the proud producer of North Carolina’s oldest newspaper still in publication, The Fayetteville Observer. Over the course of its long history, it has also added many other diverse publications, from Acento Latino to Fort Bragg’s military newspaper. It continues to lead the industry in implementing change, whether being one of the first newspapers with an online presence or installing cutting-edge printing presses.

**Site Description**

The Fayetteville Publishing Company consists of a 160,000 square foot facility divided into three separate sections. These house both office space and production. Operations run 24 hours per day, 7 days per week in the production area. The office area is in use 12 hours per day, 7 days per week. Their processes require major sources of energy including motors, boilers, chillers, space conditioning, air compressors, and a cooling tower.

**Assessment Approach**

The energy assessment, conducted in August 2014 by Energy Extension Specialists, Harsha Holalu Ramakrishna, Daniel Paprocki, Director, Stephen Terry, Ph.D., and then MAE student, Jackson Wooten, included a tour of the facility as well as energy system data.

“I was impressed by the work of your team and the report and the good energy-saving suggestions.”

collection. Subsequently, data is analyzed including rate reviews and recommendations calculated with capital purchase and payback.

Results

Results are presented to plant management in a comprehensive final report, for discussion and consideration. For The Fayetteville Publishing Company, there were seven areas of improvements in order to maximize the facility’s energy efficiency. They range from simple leak repairs to the larger considerations of light fixture, pump, and chiller replacements.

If all recommendations were implemented, there would be an initial outlay of $122,691. Cost savings per year would be $53,719. This equals a simple payback period of just over two years or 27 months. This case study will be updated with the implemented energy conservation measures upon completion.

About Energy Solutions

Energy Solutions, a part of the Department of Mechanical and Aerospace Engineering at NC State University identifies opportunities in energy efficiency, co-generation and renewables that reduce energy, save costs and increase profits, resulting in a more competitive and sustainable base of industry. The group’s mission is to train the next generation of energy engineers while simultaneously strengthening business and industry in the Southeast through fuel- and technology-neutral energy solutions that yield reductions in energy upon implementation. Energy Solutions also serves as one of 24 U.S. Department of Energy Industrial Assessment Centers in the country. Visit our website at http://www.mae.ncsu.edu/energy/.

Contact:

Kimberly Conley
Assistant Director, Energy Solutions
Kimberly_conley@ncsu.edu
919-515-0903